

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|--|---|------------------|---------|------------------|
| L12 | 72 | 398/4.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 08:44 |
| L13 | 23 | 12 and option\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 08:47 |
| L14 | 233 | 398/5.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 08:47 |
| L15 | 67 | 14 and option\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 09:07 |
| L16 | 829 | (protect or protection or spare) with (fiber\$1 or fibre\$1 or line\$1 or path\$1) with option\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 09:13 |
| L17 | 12514 | 398/1-214.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 09:08 |
| L18 | 30 | 16 and 17 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 09:08 |
| L19 | 220 | (protect or protection or spare) with (fiber\$1 or fibre\$1) with option\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 09:20 |
| L20 | 620 | (protect or protection or spare) with (line\$1 or path\$1) with option\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 09:15 |
| L21 | 177 | network\$1 and 20 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 09:15 |
| L23 | 1386 | (protect or protection or spare) with (fiber\$1 or fibre\$1) with (need\$3 or desir\$4 or necessary) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 09:22 |
| L32 | 87 | 17 and 23 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 09:22 |

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|-----|------|---|---|----|-----|------------------|
| L33 | 5198 | (protect or protection or spare) with (fiber\$1 or fibre\$1 or line\$1 or path\$1) with (need\$3 or desir\$4 or necessary) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 09:22 |
| L34 | 187 | 17 and 33 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 09:23 |
| L35 | 178 | 34 not 18 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 09:23 |
| L36 | 20 | joo-young-hoon.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 11:00 |
| L37 | 266 | oh-yun-je.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 11:01 |
| L39 | 2 | HWANG-SEUNG-TAEK.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 11:01 |
| L40 | 6 | KIM-SEUNG-HA.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 11:01 |
| L41 | 286 | 36 37 39 40 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 11:01 |
| L42 | 103 | wdm and 41 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 11:02 |
| L43 | 18 | interleav\$4 and 41 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/11/23 11:02 |
| S1 | 2 | "20020089719".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 08:23 |
| S2 | 2 | "6,211,980".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 14:44 |

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| S3 | 153529 | add\$4 adj2 drop\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 08:26 |
| S4 | 77537 | interleav\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 08:26 |
| S5 | 1200 | S3 and S4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 08:27 |
| S6 | 54300 | circulator\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 08:27 |
| S7 | 232 | S5 and S6 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 08:45 |
| S8 | 86 | S7 and (bi-direction\$4 or bidirection\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 13:53 |
| S9 | 153529 | add\$4 adj2 drop\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 13:53 |
| S10 | 77537 | interleav\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 13:53 |
| S11 | 383 | S9 and S10 and (bi-direction\$4 or bidirection\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 13:54 |
| S12 | 143013 | (bi-direction\$4 or bidirection\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 13:54 |
| S13 | 371 | S12 with (S9 or adm or oadm) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 14:49 |
| S14 | 69 | S10 and S13 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 13:54 |

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| S15 | 4 | ("5557439" "5760934" "6069719" "6351581").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/05/24 14:43 |
| S16 | 12 | hwang-yu-wen.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 14:44 |
| S17 | 302 | S13 not S14 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 14:51 |
| S18 | 114 | S17 and circulator\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 14:52 |
| S19 | 188 | S17 not S18 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 14:52 |
| S20 | 28 | (US-20010038477-\$ or US-20020057474-\$ or US-20020063948-\$ or US-20020089719-\$).did. or (US-5633741-\$ or US-6141467-\$ or US-6236499-\$ or US-6243177-\$ or US-6288811-\$ or US-6288812-\$ or US-6317539-\$ or US-6339663-\$ or US-6343165-\$ or US-6344922-\$ or US-6348985-\$ or US-6388783-\$ or US-6487329-\$ or US-6493118-\$ or US-6529656-\$ or US-6532090-\$ or US-6532106-\$ or US-6538815-\$ or US-6832017-\$ or US-5689594-\$ or US-6735391-\$ or US-6188509-\$ or US-6211980-\$ or US-6278536-\$).did. | US-PGPUB; USPAT | OR | OFF | 2005/05/24 15:03 |
| S21 | 25 | S10 and S20 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/24 15:03 |